An Account of BOOKS.

I. *Tractatus Mathematicus de Figurarum Curvilinearum Quadraturis & Locis Geometricis. Autore* Johanne Craig. Londini *apud* Sam. Smith & Benj. Walford, *Soc. Regiæ Typographos.*

THis Treatiſe conſiſts of two Heads. In the Firſt the Author undertakes to give a General Method for determining the Quadratures of Curvilinear Spaces, and this he ſhews may always be done by finding another Curve-line from the known Property of its Tangent; which Curve-line he therefore calls the *Quadratrix* of the propoſed Space. Now this *Quadratrix* (for all Spaces comprehended by Geometrical Curves) is either a Geometrical or a Mechanical Cure-line: And accordingly he divides the whole into two Parts. In the Firſt of theſe he treats of ſuch *Spaces*, whoſe *Quadratrix's* are Geometrical Curves, where he Illuſtrates his Method by a great variety of Examples; diſcovering in ſeveral of them a new Method of finding Infinite *Series's* (without the trouble of Diviſion or Extraction of Roots) by aſſuming an Arbitrary *Series* with unknown Coefficients, which are eaſily determined in the Progreſs of the Problem. And ſince the Publication of this Treatiſe we have ſome Inſtances of the like Method of finding *Series's* by that excellent Mathematician, Mr. *Leibnitz*, Printed in the *Acta Eruditorum* of *April*, 1693. Afterwards he gives a Method of comparing the *Area's* of Figures with the ſimpleſt Figures of the ſame kind; from which he deduces many Theorems, each of which do exhibit the Quadratures of an Infinity of Figures without any trou-

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ble of Calculation: And withal ſhewing to what Theorem any propoſed Figure is to be referred, and how the like Theorems may be continued by the help of his general Method. He concludes this Firſt Part with a Diſcourſe concerning the Analytical Expreſſion of Quadratures, wherein is ſhewn, that though the *Area* anſwering to the *Abſciſſa* be that which is commonly ſought, yet the general Quadrature found by his Method, is for the moſt part either greater or leſſer: Therefore he gives both a Geometrical and Analytical Rule for knowing whether the ſaid general Quadrature be deficient or exceeding, and what that deficient or exceeding Quantity is.

The Second Part treats of the Quadratures of thoſe Spaces, whoſe *Quadratrix's* are *Mechanical* or Tranſcendent Curves, as he (after Mr. *Leibnitz*) chooſes rather to call them; where he gives a general Method for finding their Tangents. And having given a Rule for defining the Tranſcendent Quadratrix of any Algebraical Curve (that is not capable of a Geometrical one) he Illuſtrates the ſame by finding the Tranſcendent Quadratures of the Circle, *Hyperbola*, and two other Figures.

There is added at the end, the Author's Anſwer to a Letter of Mr. *D. T's.* relating to a Controverſie between them concerning a Method of Quadratures, publiſhed by Mr. *D. T.* in the *Acta Eruditorum.*

The Second Head of this Treatiſe is concerning the *Geometrical Places*, wherein is ſhewn how to determine any *Solid Place*, by comparing the Equation with a general *Theorem* comprehending all Places of that kind: Whereby are avoided all thoſe many Rules about the Reduction of the given Equation, and the variety of the Signs + and —, which have hitherto rendred this Piece of Geometry ſo troubleſom.

II. *The Hiſtory of the* Church *of* Malabar, *from the time of its being Diſcovered by the* Portuguezes *in the Year* 1501. *Giving an Account of the Perſecutions and violent Methods of the* Roman *Prelates to reduce them to the Subjection of the Church of* Rome, *together with the* Synod *of* Diamper, *celebrated* Anno 1599. *With ſome Remarks upon the* Faith *and* Doctrine *of the Chriſtians of St.* Thomas *in the* Indies, *agreeing with the* Church *of* England, *in Oppoſition to that of* Rome: *Done out of* Portuguez *into* Engliſh *by* Michael Geddes, *Chancellor of the Cathedral Church of* Sarum. Lond. *Printed for* S. Smith *and* B. Walford. *In Octavo.* 1694.

THE Author of this Hiſtory begins with a ſhort Account of the Country of *Malabar*, as to its Situation, its Kingdoms, and Ports, moſtly inhabited by Heathens, only the South end of the *Serra* or *Gate*, a Ridge of Mountains running 200 Leagues North and South, is Inhabited by *Chriſtians*, as they call themſelves of St. *Thomas*, which Apoſtle, they ſay, firſt converted them. They have been for 1300 Years under the *Patriarch* of *Babylon*. Next, he ſhews us how the firſt News of them came to *Portugal*, *Anno* 1501. and upon what Account they begged the *Portuguez* Aſſiſtance againſt the Infidels. *Anno* 1505. two Chriſtians ſent by the *Venetians*, taught the *Indians* the uſe of Great Guns, thereby to oppoſe the *Portuguez* and their Trade there. Till about the Year 1544. little more was heard of them,

them, at which time the Croſs, and other pretended Reliques of St. *Thomas* were found at *Meliapor*, of which the Author gives the Legend, which leads him to give an Account of the Violences uſed by the *Roman Catholicks* to bring them to the Obedience of their Church, for that purpoſe erecting a College at *Cranganor*, *Anno* 1546. and in the Year 1587. another to inſtruct them in the *Chaldee* and *Syriack* Tongues. The Extreamities they there made uſe of, as the Author Obſerves, had like to have coſt them all that they had in the *Indies*, and was the greateſt cauſe of the War between the *Portuguez* and the *Indians*. There are ſeveral Remarkable Paſſages of the Jeſuites Contrivances, and the *Indians* Reſentment thereof, for which I refer to the Book, as leſs proper to our Deſign. The Author ſhews the Doctrines wherein the *Church* of *Malabar* agrees with that of *England*, and differs from the *Roman*. And concludes with the Acts and Decrees of the *Synod* of *Diamper*, with the occaſion of its being called; which, with a Preface to a *Miſſal* impoſed upon that Church by the Arch-Biſhop *Menezes*, ends the whole Book.

ERRATA. Numb. 208.

Page 48. line 23. read *Hynnon Dhewi*, or *Phynnon Dhewi*. pag. 49. l. 17. r. *Harlech*. pag. 70. l. 17. r. 58½.

LONDON:

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